

Title (en)

VERIFYING PROCESSING LOGIC OF A GRAPHICS PROCESSING UNIT

Title (de)

ÜBERPRÜFEN DER VERARBEITUNGSLOGIK EINER GRAFIKVERARBEITUNGSEINHEIT

Title (fr)

VÉRIFICATION DE LOGIQUE DE TRAITEMENT D'UNE UNITÉ DE TRAITEMENT GRAPHIQUE

Publication

EP 4113306 A1 20230104 (EN)

Application

EP 22181232 A 20220627

Priority

GB 202109352 A 20210629

Abstract (en)

A method of verifying processing logic of a graphics processing unit, the method comprising: receiving a test task at the graphics processing unit, the test task comprising a predefined set of instructions for execution on the graphics processing unit, the predefined set of instructions being configured to perform a predetermined set of operations on the graphics processing unit when executed for predefined input data; in a test phase, processing the test task by executing the predefined set of instructions for the predefined input data first and second times at the graphics processing unit so as to, respectively, generate first and second outputs; and raising a fault signal if the first and second outputs do not match.

IPC 8 full level

G06F 11/22 (2006.01); **G06F 11/16** (2006.01)

CPC (source: CN EP GB US)

G06F 9/3836 (2013.01 - US); **G06F 9/3877** (2013.01 - US); **G06F 11/0724** (2013.01 - US); **G06F 11/079** (2013.01 - US); **G06F 11/1645** (2013.01 - EP); **G06F 11/22** (2013.01 - GB); **G06F 11/2242** (2013.01 - EP); **G06F 11/25** (2013.01 - CN); **G06T 1/20** (2013.01 - CN); **G06F 2201/845** (2013.01 - EP)

Citation (search report)

- [Y] US 2016055047 A1 20160225 - OKAMOTO TATSUSHI [JP]
- [Y] EP 3663921 A1 20200610 - IMAGINATION TECH LTD [GB]
- [XY] US 2021165730 A1 20210603 - SURYA KRISHNA [US], et al
- [Y] US 2021109813 A1 20210415 - MORRIS PHILIP [GB], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

GB 202109352 D0 20210811; **GB 2605467 A 20221005**; **GB 2605467 B 20231206**; CN 115543716 A 20221230; EP 4113306 A1 20230104; US 11940866 B2 20240326; US 2023043280 A1 20230209; US 2024231981 A1 20240711

DOCDB simple family (application)

GB 202109352 A 20210629; CN 202210734348 A 20220627; EP 22181232 A 20220627; US 202217852188 A 20220628; US 202418615881 A 20240325